#### **United States Department of Agriculture**



Natural Resources Conservation Service 375 Jackson Street, Suite 600 St. Paul. MN 55101-1854

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July 21, 2004

To be sent via E-mail

MINNESOTA BULLETIN NO. 360-4-28

SUBJECT: PER - TRAINING - JURISDICTIONAL DELINEATION OF WETLANDS IN MINNESOTA

<u>Purpose.</u> To inform participants about Wetland Delineation Training.

Expiration Date. September 30, 2004.

### Action Requested by August 1, 2004

The Minnesota Board of Water & Soil Resources, the Natural Resources Conservation Service and the U.S. Army Corps of Engineers will be conducting a Jurisdictional Delineation of Wetland in Minnesota Workshop for NRCS employees on August 23-27, 2004 at the Initiative Foundation, 405 First Street SE, Little Falls, Minnesota.

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The workshop will be a mix of classroom and field exercises. The agenda is attached. Participants will need to bring appropriate clothing and supplies for working in wetland environments including boots, long sleeve shirts, hats, bug spray, sunscreen, rain gear, etc. Box lunches for field days will be provided by Sheri's Towne Deli, Little Falls. NRCS employees will need to deduct meals provided from their travel youchers.

A block of rooms has been set up under  $\underline{\text{Wetland Training}}$  at the following motels –  $\underline{\text{call to make your}}$   $\underline{\text{motel room reservations by August 1}^{\text{st}}}$ .

- Super 8 Motel, 300 12<sup>th</sup> Street NE, Little Falls Phone 320/632 2351 (12 rooms available)
- AmericInn, 306 Lemieur Street SE, Little Falls Phone 320/632 1964 (14 rooms available)
- Country Inn and Suites, 209 16<sup>th</sup> Street, Little Falls Phone 320/632 1000 (15 rooms available)

WILLIAM HUNT State Conservationist

Attachments: Participant List, Agenda

DIST: Participants & Instructors

Joe Wiltsey, Training Coordinator

AO-ACS AO-SEC SO-PRIN

An Equal Opportunity Provider and Employer

WETLAND DELINEATION REG 4			
COE	LITTLE FALLS	23-27 AUG	BWSR/NRCS
INSTRUCTORS			
JACOBSEN, SONIA	ST PAUL		NRCS
CORNELIUS, SID	ST PAUL		NRCS
STEFFEN, KIM	ST PAUL		NRCS
WILTSEY, JOE	CROSSLAKE		NRCS
LARSON, GREG	ST PAUL		BWSR
MINGS, TOM	ST PAUL		BWSR
EGGERS, STEVE	ST PAUL		USACOE
<u>PARTICIPANTS</u>			
ALEXANDER, NANCY	MOORHEAD		NRCS
BEHRENS, MELISSA	CROOKSTON		NRCS
BENGTSON, SHANNON	THIEF RIVER FALLS		NRCS
BYERS, ANN	ALBERT LEA		NRCS
BYRNS, TIM	DULUTH		NRCS
CHRISTENSEN, KEITH	MILACA		NRCS
DRAGSETH, DOUG	CLARKFIELD		NRCS
ELLEFSON, BEN	DULUTH		NRCS
ESPE, THANE	HALLOCK		NRCS
HALFMANN, KURT	LUVERNE		NRCS
HASBROUCK, BONNIE	ROSEAU		NRCS
KJORNESS, JEFF	OLIVIA		NRCS
KRUSE, RYAN	FAIRMONT		NRCS
KUNKEL, MARV	MORA		NRCS
LEGATT, MICHELLE	WINDOM		NRCS
LEONHARDT, KRYSTAL	BEMIDJI		NRCS
LINDNER, JULIE	HINCKLEY		NRCS
MARQUEZ, RAELENE	WABASHA		NRCS
MOHRHAUSER, GEORGE	WAITE PARK		NRCS
PETER, AARON	DULUTH		NRCS
PETERSON, TOM	SLEEPY EYE		NRCS
SCHAUNAMAN, JAIME	PRESTON		NRCS
SCHMIEDLIN. GARY	DULUTH		NRCS
SCHMIESING, RANDY	MORRIS		NRCS
STOKES, YAMIKA	LEWISTON		NRCS
WALCZYNSKI, MIKE	DULUTH		NRCS
WENDLAND, ALLISA	SLAYTON		NRCS
WOLTJER, ADAM	MCINTOSH		NRCS
ZABINSKI, LEE	WAITE PARK		NRCS

### JURISDICTIONAL DELINEATION OF WETLANDS IN MINNESOTA

### Initiative Foundation, 405 First Street SE Little Falls, Minnesota August 23-27, 2004

## <u>AGENDA</u>

# DAY 1 – Monday, August 23<sup>rd</sup> - LECTURE- At Initiative Foundation

9:00 a.m 9:30 a.m.	Registration - At course registration desk at Initiative Foundation
9:30 a.m 10:00 a.m.	Welcome Introduction of Instructors Wiltsey Introduction of Class Course Agenda Course Objectives Safety Introduction to Texts and Materials Larson Experience Questionnaire
10:00 a.m 10:30 a.m.	Pre-Test
10:30 a.m 10:45 a.m.	Break
10:45 a.m. – Noon	Wetland Regulatory and Delineation Overview  1. The Minnesota Wetland Conservation Act and DNR Mings Protected Waters and Calcareous Fens  2. Federal Clean Water Act Eggers  3. USDA Farm Bill Cornelius
Noon 1:00 p.m.	Lunch - Provided
1:00 p.m 1:45 p.m.	Off-site and Onsite Determinations and MethodsMings
1:45 p.m 2:45 p.m.	Wetland Soils Lecture
2:45 p.m 3:00 p.m.	BREAK
3:00 p.m 4:30 p.m.	Wetland Soils Lecture (Continued) Questions and Answers

4:30 p.m 4:45 p.m. 4:45 p.m 5:15 p.m.	Field Team Assignments Distribute and Inventory Field Gear to Teams			
5:15 p.m 5:30 p.m.	Handout Soils Homework			
5:30 p.m.	ADJOURN			
<u>DAY 2 – Tues</u>	day, August 24th - LECTURE At Initiative Foundation			
8:00 a.m 8:30 a.m.	Wetland Soils Homework ReviewLarson			
8:30 a.m 9:00 a.m.	<ul> <li>"Normal Environmental Conditions" Discussion I</li> <li>Normal Circumstances</li> <li>Growing Season</li> </ul>			
9:00 a.m 9:20 a.m.	Wetland Vegetation and Classification Lecture  1. Introduction to the National/Regional List of Plant Species That Occur in Wetlands			
9:20 a.m 9:45 a.m. 9:45 a.m 10:15 a.m.	<ol> <li>Overview of MN Wetland Plants and Plant Communities Eggers</li> <li>Mandatory Criteria for Hydrophytic Vegetation Eggers</li> </ol>			
10:15 a.m 10:30 a.m.	BREAK			
10:30 a.m 11:40 a.m.	Wetland Vegetation Lecture - Continued			
11:40 a.m 12:25 p.m.	<ul> <li>Wetland Classification/Type</li></ul>			
12:25 p.m.	Handout Vegetation Homework			
12:25 p.m 12:35 p.m.	Review Field Sites/Slides			
12:35 p.m 1:10 p.m.	Load the Bus - Travel to Field Site 1 - Eat box lunch en route			
DAY 2 - FIELD				
Whipple Lake Bog - #1				
1:10 p.m 1:30 p.m.	<ul><li>"Gear Talk"</li><li>Field Equipment Discussion</li></ul>			
1:30 p.m 5:00 p.m.	Routine Delineation of an Unaltered Wetland  1. Data Sheets - (Break into three groups)  A. Establishment of Vegetative PlotsEggers and Mings  - Vegetation Identification  - Vegetative Stratum  - Forested Area Methods			

	<ul> <li>B. Soils and Hydrology</li></ul>		
5:00 p.m 5:30 p.m.	Return to Initiative Foundation /Adjourn		
DAY 3 – Wednesday, August 25 <sup>th</sup> - LECTURE At Initiative Foundation			
8:00 a.m 8:30 a.m.	Vegetation Homework Review Eggers		
8:30 a.m 9:30 a.m.	<ul> <li>"Normal Environmental Conditions" Discussion II</li> <li>Problem Wetlands</li> <li>Atypical situations</li> </ul>		
9:30 a.m 10:15 a.m.	Wetland Hydrology Lecture Jacobsen  1. Wetland Origins and Geologic Setting  2. Hydrology Introduction  3. Groundwater and Wells  4. Altered Conditions - Scope and Effect Jacobsen		
10:15 a.m 10:30 a.m.	Break		
10:30 a.m 12:40 p.m.	Hydrology Lecture (Continued)		
12:40 p.m 12:50 p.m.	Review Field Sites/Slides		
12:50 p.m 12:55 p.m.	Handout Hydrology Quiz/Homework		
12:55 p.m 1:30 p.m.	Load Bus - Travel to Field Site 2 - Eat box lunch en route		
<u>DAY 3 - FIELD</u>			
1:30 p.m 4:30 p.m.	<ol> <li>Wetland Type</li> <li>"Normal Environmental Conditions"- Discussion</li> <li>Historical Data</li> </ol>		

- 4. Vegetative Regeneration
- 5. Jurisdictional Discussion
- 6. Approaches/Requirements for Intermediate (Vegetative Dominance) and Comprehensive Level Delineations......Eggers
- 7. Delineation Mapping Exercise: Quality Assurance/Quality Control and Inspection of Jurisdictional Delineations Completed by Others;

## 4:30 p.m. - 5: 00 p.m. Return to Initiative Foundation

# DAY 4 -Thursday, August 26<sup>th</sup> - FIELD - Leave From Initiative Foundation

Little Elk WMA - #3, Larry Hlad Ditch Site - #4Instructor Team		
8:00 a.m 8:25 a.m.	Review Field Sites/Slides	
8:25 a.m. – 9:00 a.m.	Load Bus at Initiative Foundation - Travel to Site 3, Little Elk WMA	
9:00 a.m 11:15 a.m.	Little Elk Wildlife Management Area - #3 Instructor Team	
	<ul> <li>Routine Delineations With Emphasis On;</li> <li>Wetland Delineation/Mapping; Jurisdictional Issues</li> <li>Delineation of Riparian Wetlands (with altered vegetation)</li> </ul>	
11:15 a.m 12:15 p.m.	Lunch in Field and Review Hydrology Quiz/Homework	
12:15 p.m 12:30 p.m.	Load Bus - Travel to Field Site 4	
12:30 p.m 4:30 p.m.	<u>Ditched Wetland - #4</u>	
	<ol> <li>Recognition of Altered Hydrology</li> <li>"Scope and Effect" Determinations/Limitations</li> <li>Determination of Normal Environmental Conditions/Problem Areas</li> <li>Three Parameter Delineation of an Altered Site</li> <li>Return to Initiative Foundation</li> <li>Inventory and Return Field Gear</li> <li>Handout Disturbed/Problem Area Homework</li> </ol>	
4:30 p.m. – 5:00 p.m.	Return to Initiative Foundation	
DAY 5 - Friday, August 27 - At Initiative Foundation		
Check out of Hotels		
8:00 a.m 8:30 a.m.	Review Disturbed/Problem Area Homework	
8:30 a.m 9:00 a.m.	Course Synthesis/Final Questions and Answers	

9:00 a.m. - 10:15 a.m. Written Examination

10:15 a.m. - 10:30 a.m. BREAK

10:30 a.m. - 11:15 a.m. Review written examination

11:15 a.m. - 11:45 a.m. Course Evaluation

11:45 a.m. - Noon Distribute Certificates of Training with pretest and final test results

### **Drive Safely Home**

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#### 2004 Instructors

Sid Cornelius, Resource Conservationist, Natural Resources Conservation Service, St. Paul

Steve Eggers, Senior Ecologist, U.S. Army Corps of Engineers – Regulatory Branch, St. Paul

Sonia Maassel Jacobsen, Hydraulic Engineer, USDA – Natural Resources Conservation Service, St. Paul

Greg Larson, State Soils Specialist, BWSR/University of Minnesota, St. Paul

Tom Mings, Sr. Wetlands Specialist, MN Board of Water and Soil Resources – St. Paul

Kim Steffen, Soil Scientist, Natural Resources Conservation Service—St. Paul